## **INTERNATIONAL SEARCH REPORT**

International Application No PCT/US2004/020706

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C07C309/82 C08F14/18 H01M8/02

According to International Patent Classification (IPC) or to both national classification and IPC

## **B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

C07C C08F H01M IPC 7

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BEILSTEIN Data, WPI Data, PAJ, CHEM ABS Data

Category °	Citation of document, with indication, where appropriate, of the	Relevant to claim No	
X	DATABASE CAPLUS CHEMICAL ABSTRACTS SERVICE, CO OHIO, US; XP002303652 Database accession no. 2004:20	1-4,9-58	
Y	abstract  & CN 1 349 962 A (SHANGHAI INSORGANIC CHEMISTRY) 22 May 2002 (2002-05-22)	5-8, 18-58	
Y	WO 97/25369 A (BALLARD POWER S 17 July 1997 (1997-07-17) claims 8,9; example 6	SYSTEMS)	5-8, 18-58
X Fur	ther documents are listed in the continuation of box C	Patent family members are listed l	n annex
° Special c	ategories of cated documents.	"T" later document published after the inte	mational filmo date
"A" docum	nent defining the general state of the art which is not idered to be of particular relevance	"T" later document published after the inte or priority date and not in conflict with cited to understand the principle or the invention	the application but
"A" docum consi "E" earlier filing "L" docum which	nent defining the general state of the art which is not idered to be of particular relevance document but published on or after the international	or pnority date and not in conflict with cited to understand the principle or the invention  "X" document of particular relevance; the cannot be considered novel or cannot involve an inventive step when the do  "Y" document of particular relevance, the cannot be considered novel or cannot involve an inventive step when the do	the application but early underlying the claimed invention to be considered to current is taken alone claimed invention.
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## INTERNATIONAL SEARCH REPORT

International Application No
PCT/US2004/020706

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Category °	Citation of document, with Indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 98/20573 A (DU PONT DE NEMOURS) 14 May 1998 (1998-05-14) claim 1; examples	1,5,9, 18,31, 32,48
A	WO 96/39379 A (BALLARD POWER SYSTEMS) 12 December 1996 (1996-12-12) claims 1,4,16,18; examples	1,5,9, 18,31, 32,48
A	EP 1 170 310 A (SAMSUNG ELECTRONICS) 9 January 2002 (2002-01-09) page 8, line 11 - line 41; claims 1,7,8; figure 2	1,5,9, 18,31, 32,48

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